



FANS 1/A over SwiftBroadband Performance Analysis

ISPACG/31 - FIT/24

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Federal Aviation
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FANS 1/A over SBB Project – Overview

Performance-based Operations Aviation Rulemaking Committee (PARC) Communications Working Group (CWG) Project Goal – determine if FANS 1/A over SBB is viable for air traffic management operations that rely on RCP240 and RSP180

- **2012** – Project initiated for FANS 1/A over SBB - Hawaiian Airlines (HAL) kicking off
- **Jun 2015** – HAL began FANS 1/A operations with one B-767
- **Feb 2016** – Eight (8) HAL B-767s with FANS 1/A over SBB
- Ongoing – PBCS evaluations taking place in the Pacific Region
- Soon – 3 cargo aircraft planning to participate
- 2017 – Recommendations to FAA on FANS 1/A over SBB

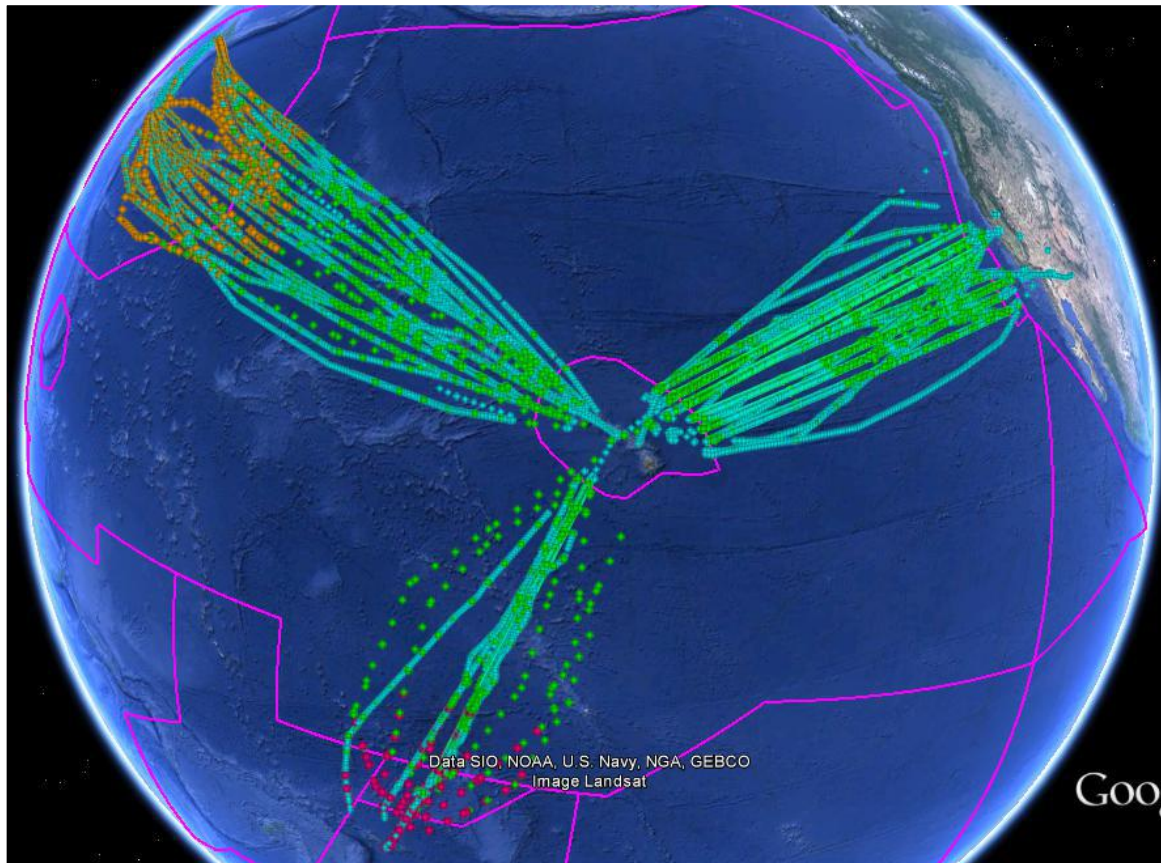
ASP BY FIR



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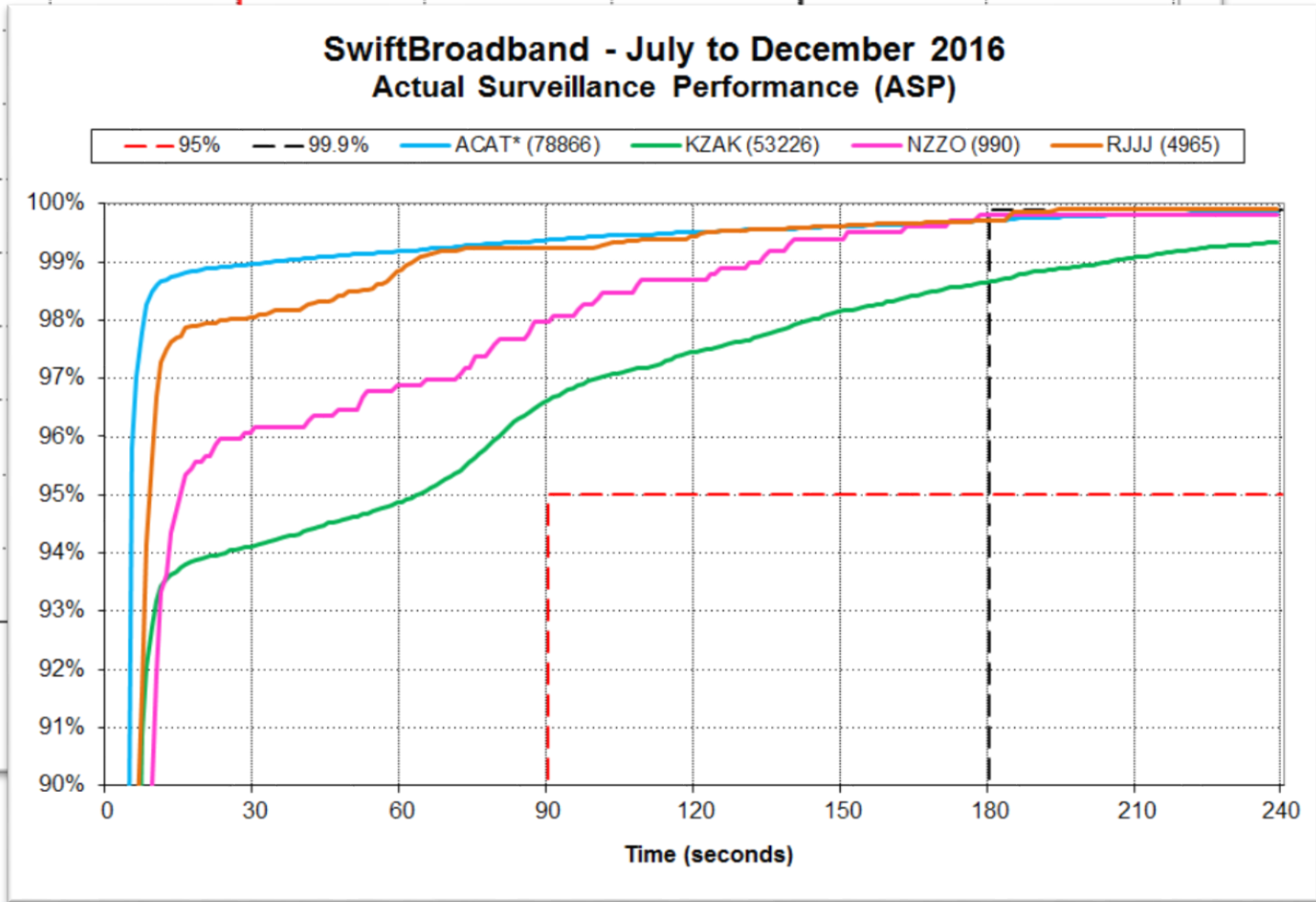
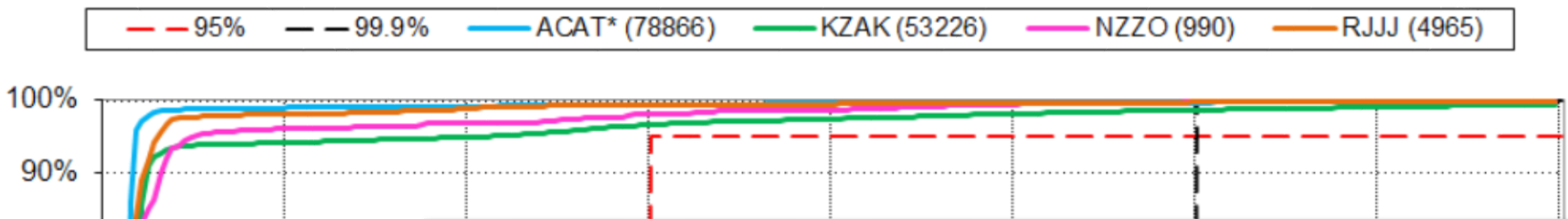
Next**GEN**

Data Collection



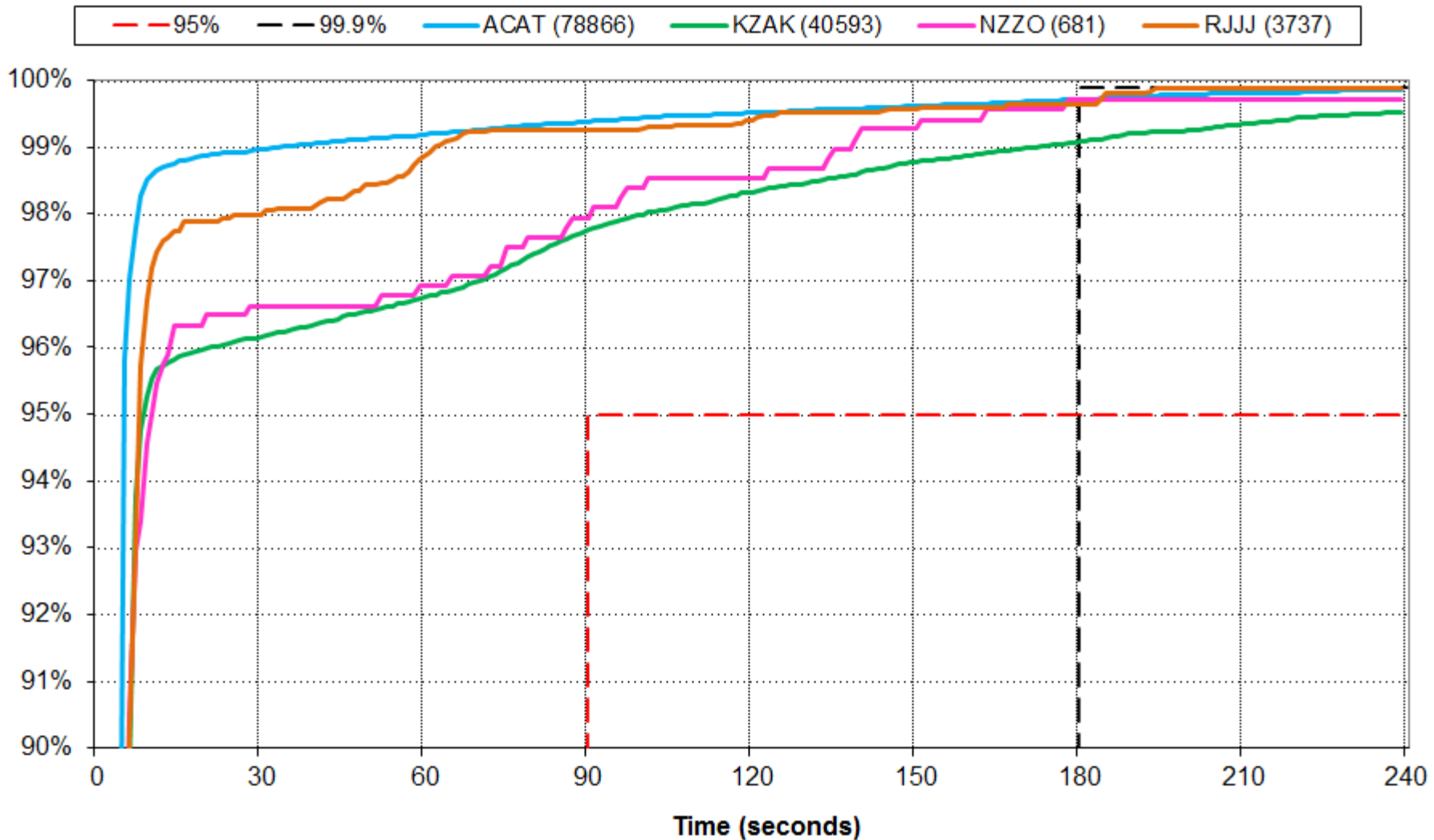
ANSP	ADS-C reports
Oakland (KZAK)	Periodic (10 min) and Event
Auckland (NZZO)	Periodic (15 min) and Event
Fukuoka (RJJJ)	Periodic (12 min) and Event
Boeing ACAT	Periodic (2 min)/ Demand (5 min)

SwiftBroadband - July to December 2016 Actual Surveillance Performance (ASP)



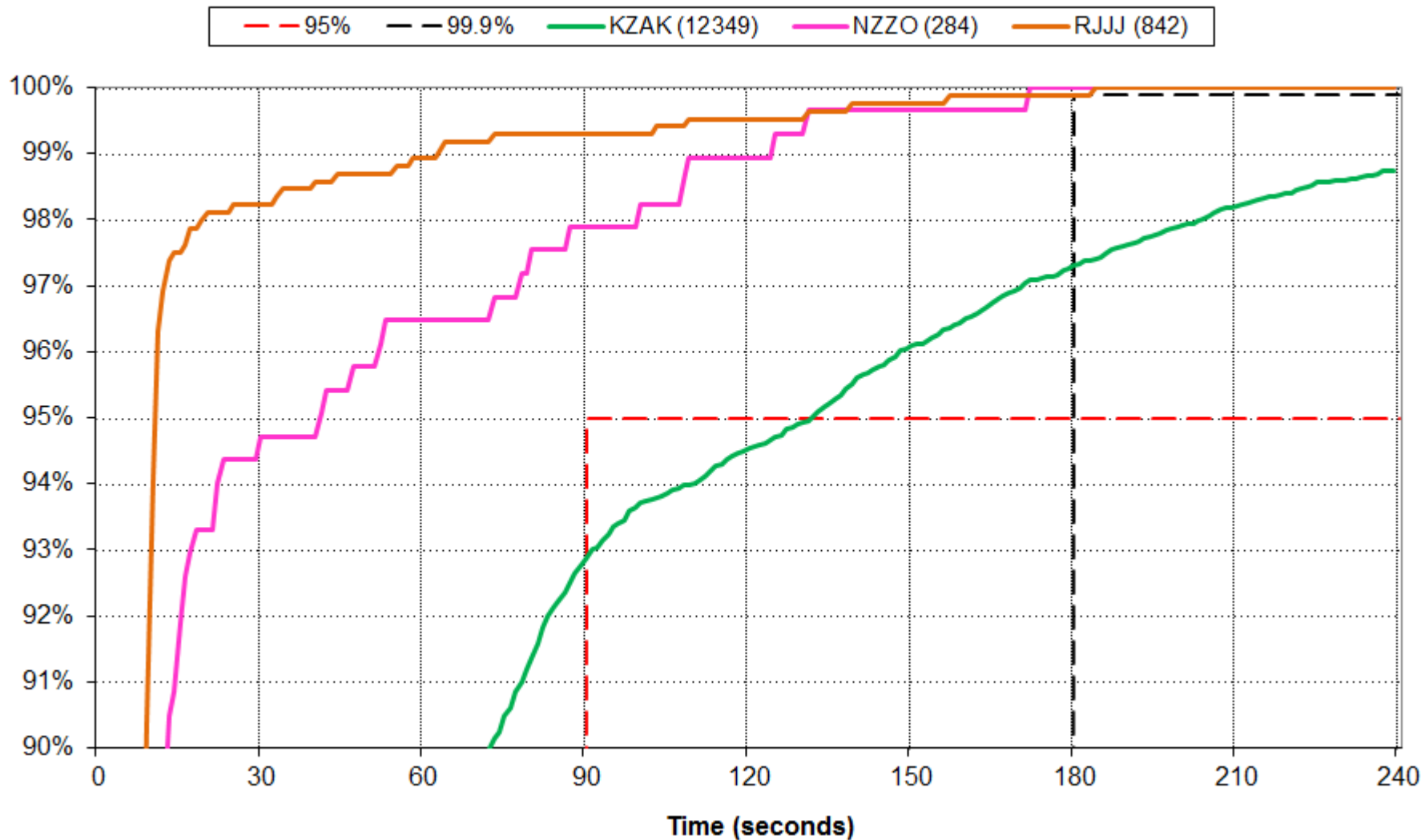
SwiftBroadband - July to December 2016 - Periodic Reports

Actual Surveillance Performance (ASP)



SwiftBroadband - July to December 2016 - Waypoint reports

Actual Surveillance Performance (ASP)



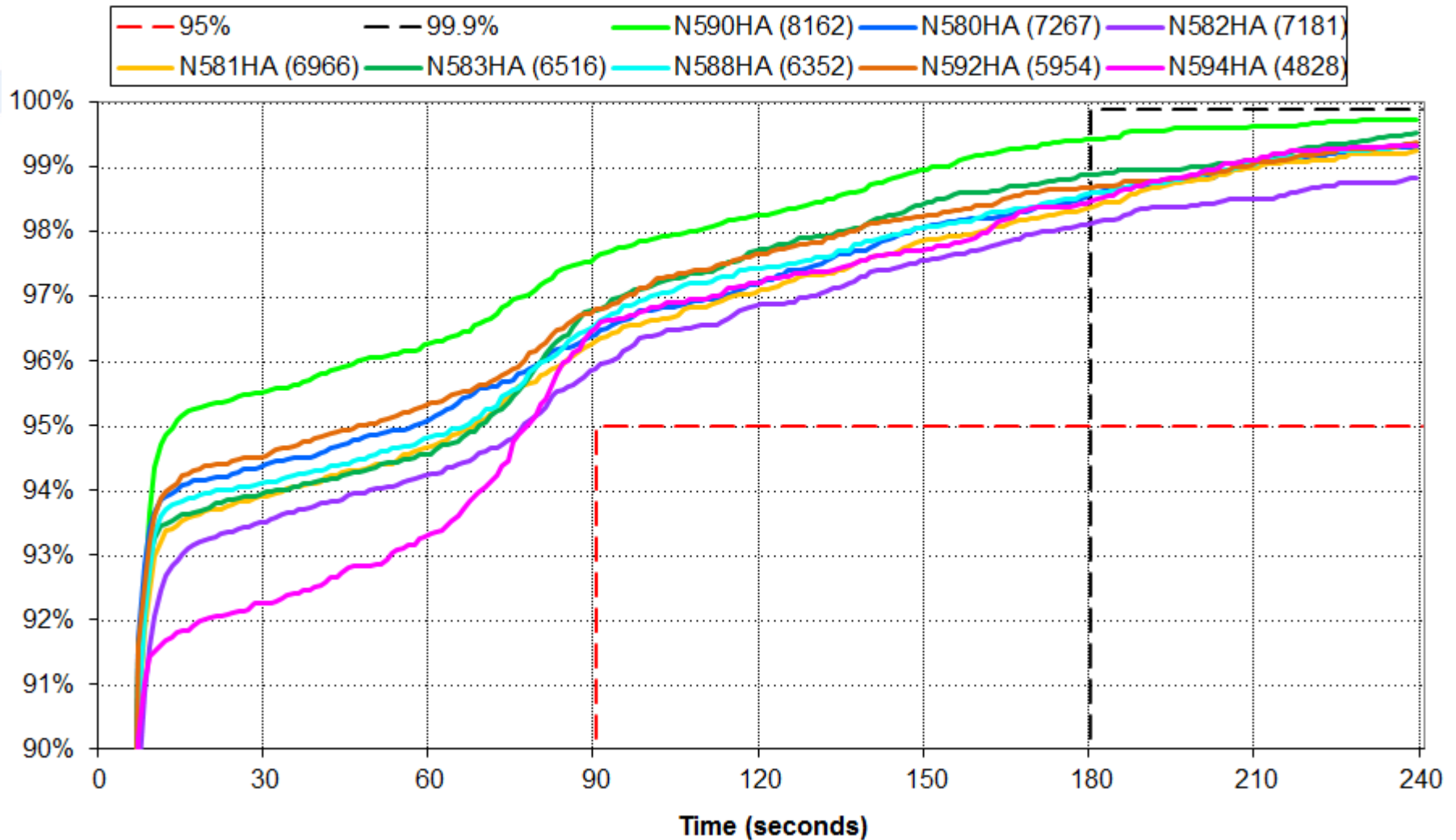
ASP AND ACP BY AIRFRAME



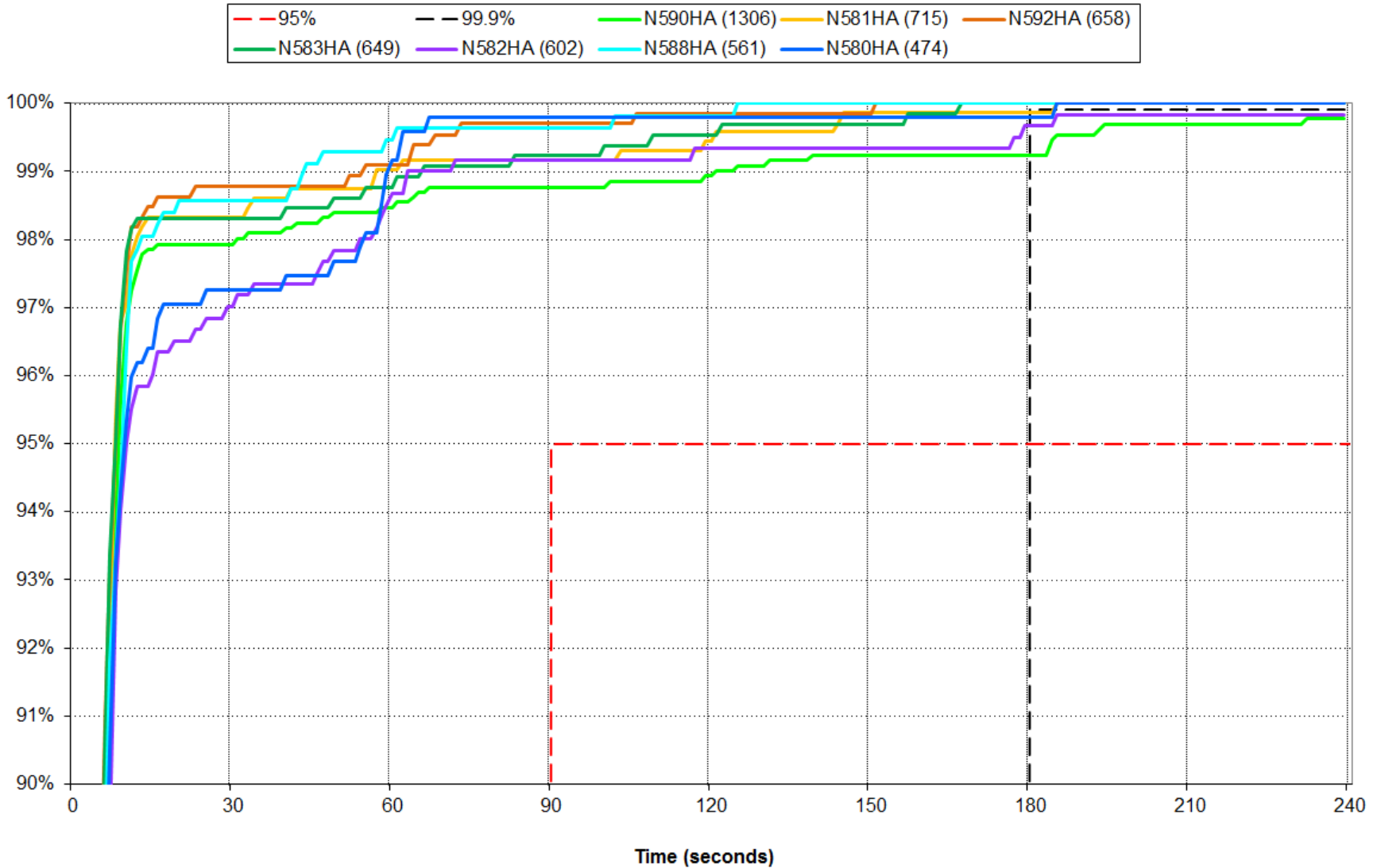
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KZAK - SwiftBroadband - July to December 2016 Actual Surveillance Performance (ASP)

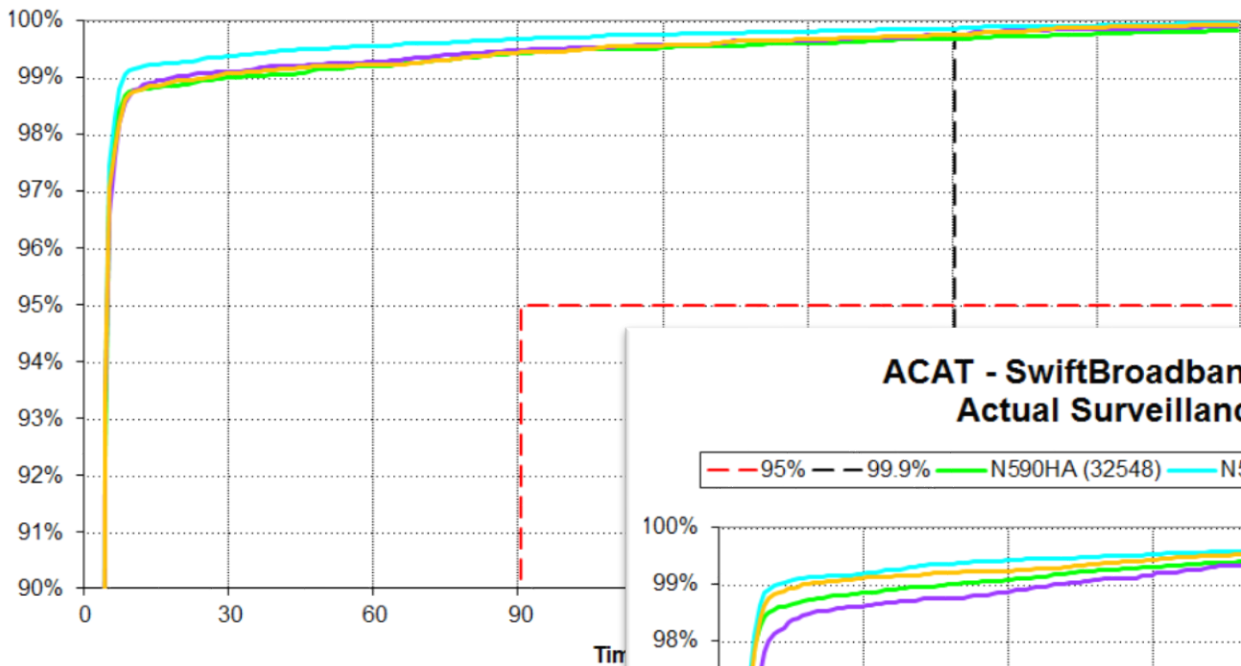


RJJJ - SwiftBroadband - July to December 2016 Actual Surveillance Performance (ASP)



ACAT - SwiftBroadband - January to June 2016 Actual Surveillance Performance (ASP)

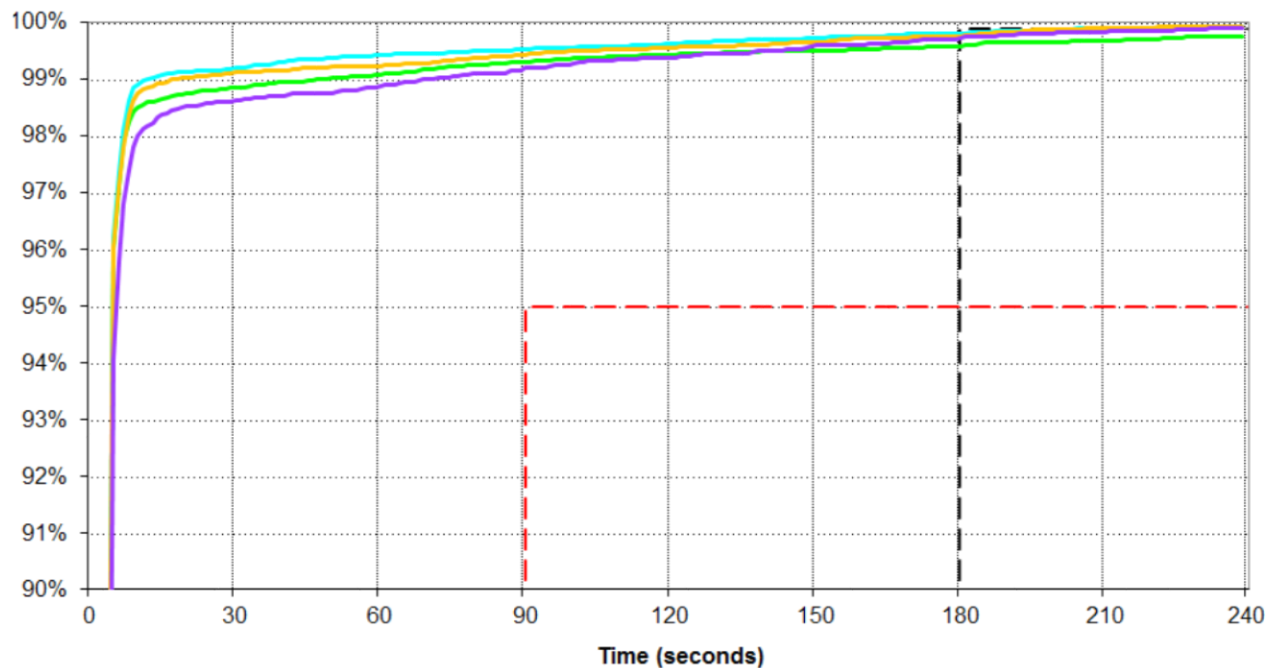
— 95% — 99.9% — N588HA (27902) — N590HA (24952) — N582HA (12719) — N581HA (10715)



Airframe	ACAT Contract
N581HA	Nov 2015 (5-min demand)
N582HA	Dec 2015 (5-min demand)
N588HA	Jul 2015 (2-min periodic)
N590HA	Dec 2015 (2-min periodic)

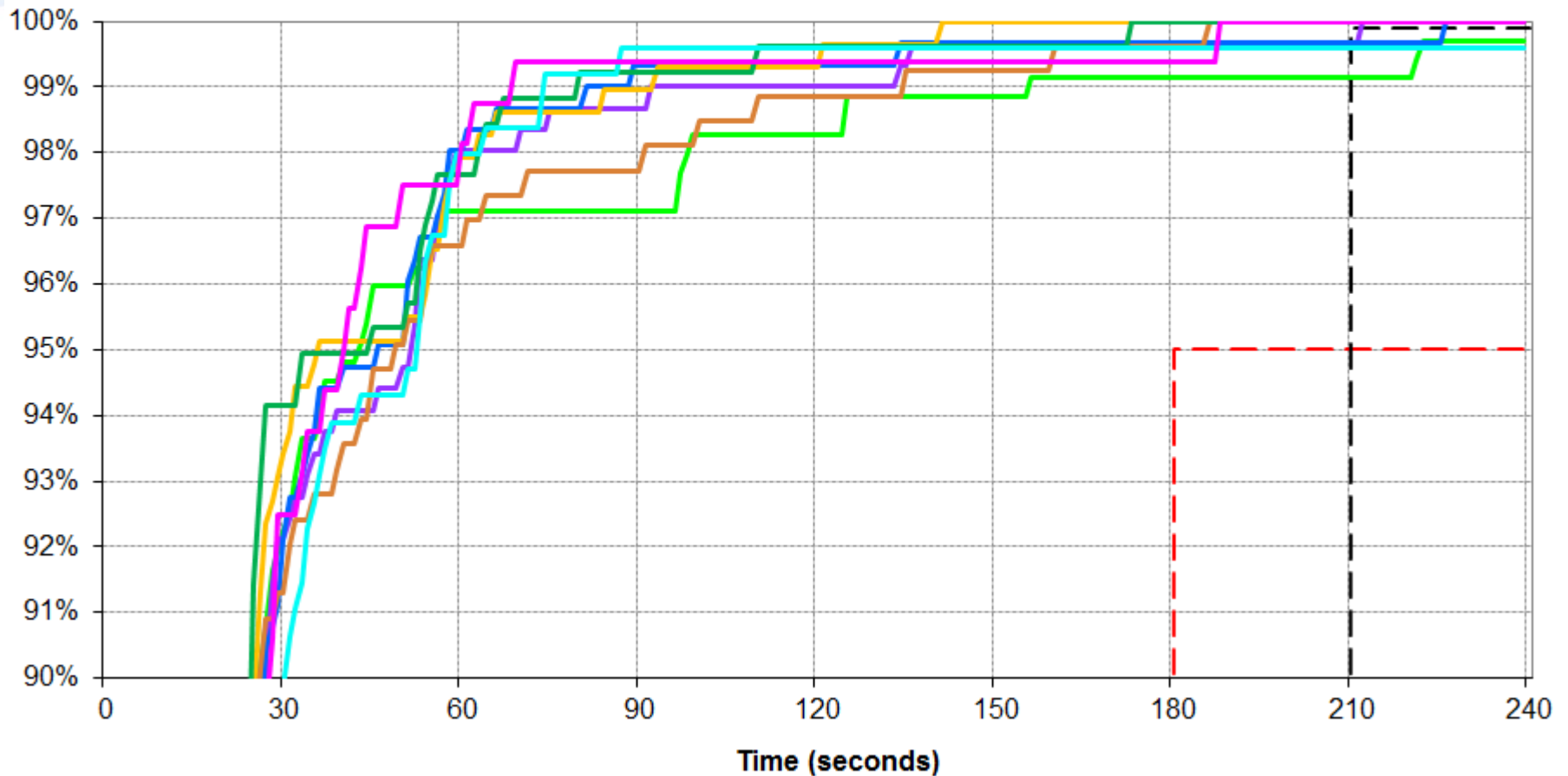
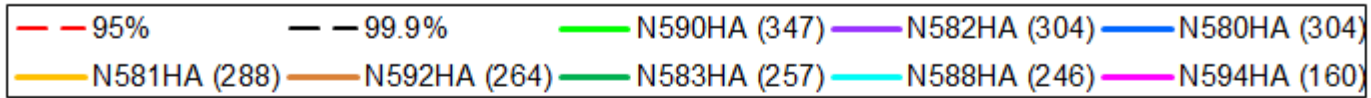
ACAT - SwiftBroadband - July to December 2016 Actual Surveillance Performance (ASP)

— 95% — 99.9% — N590HA (32548) — N588HA (22894) — N581HA (12019) — N582HA (11405)



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KZAK - SwiftBroadband - July to December 2016 Actual Communication Performance (ACP)



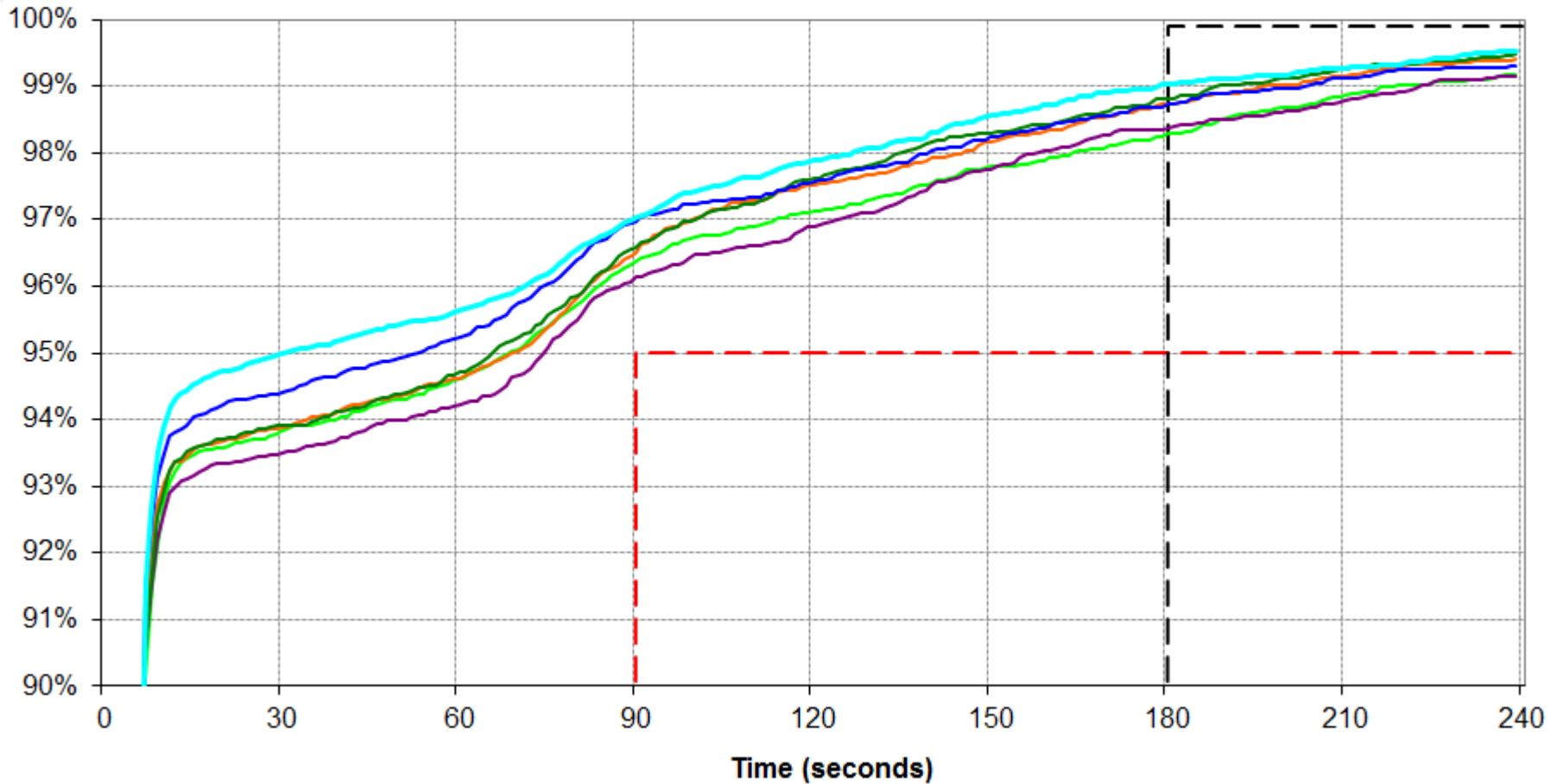
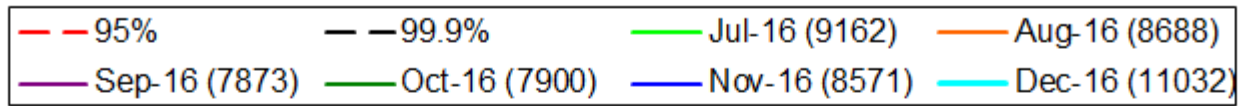
PERFORMANCE BY MONTH



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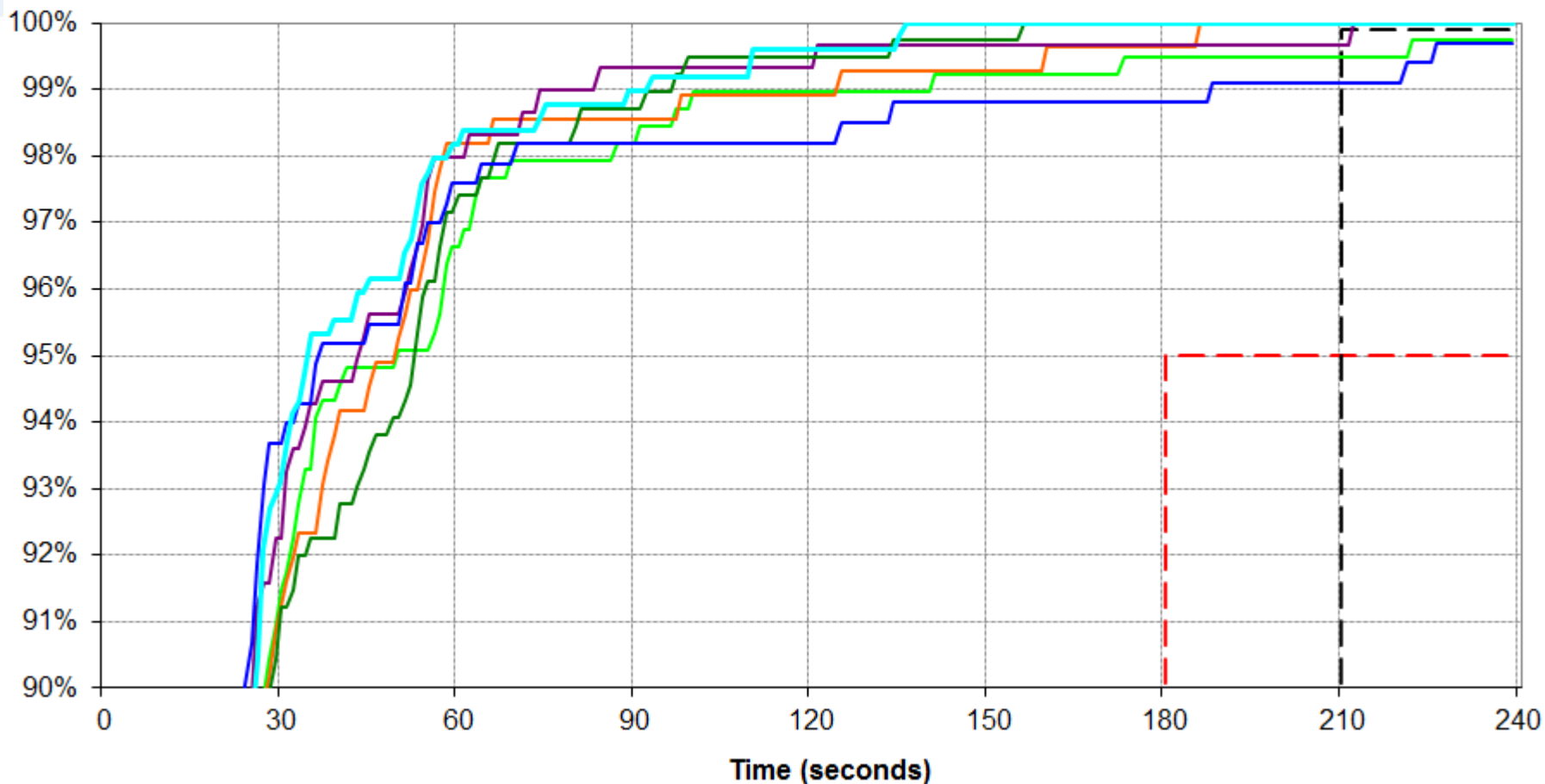
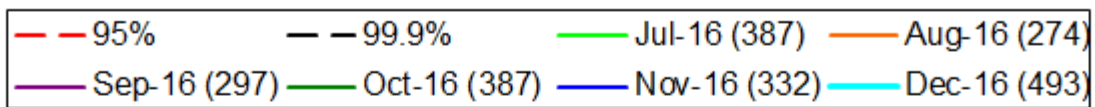


Oakland FIR - All SBB Actual Surveillance Performance (ASP)



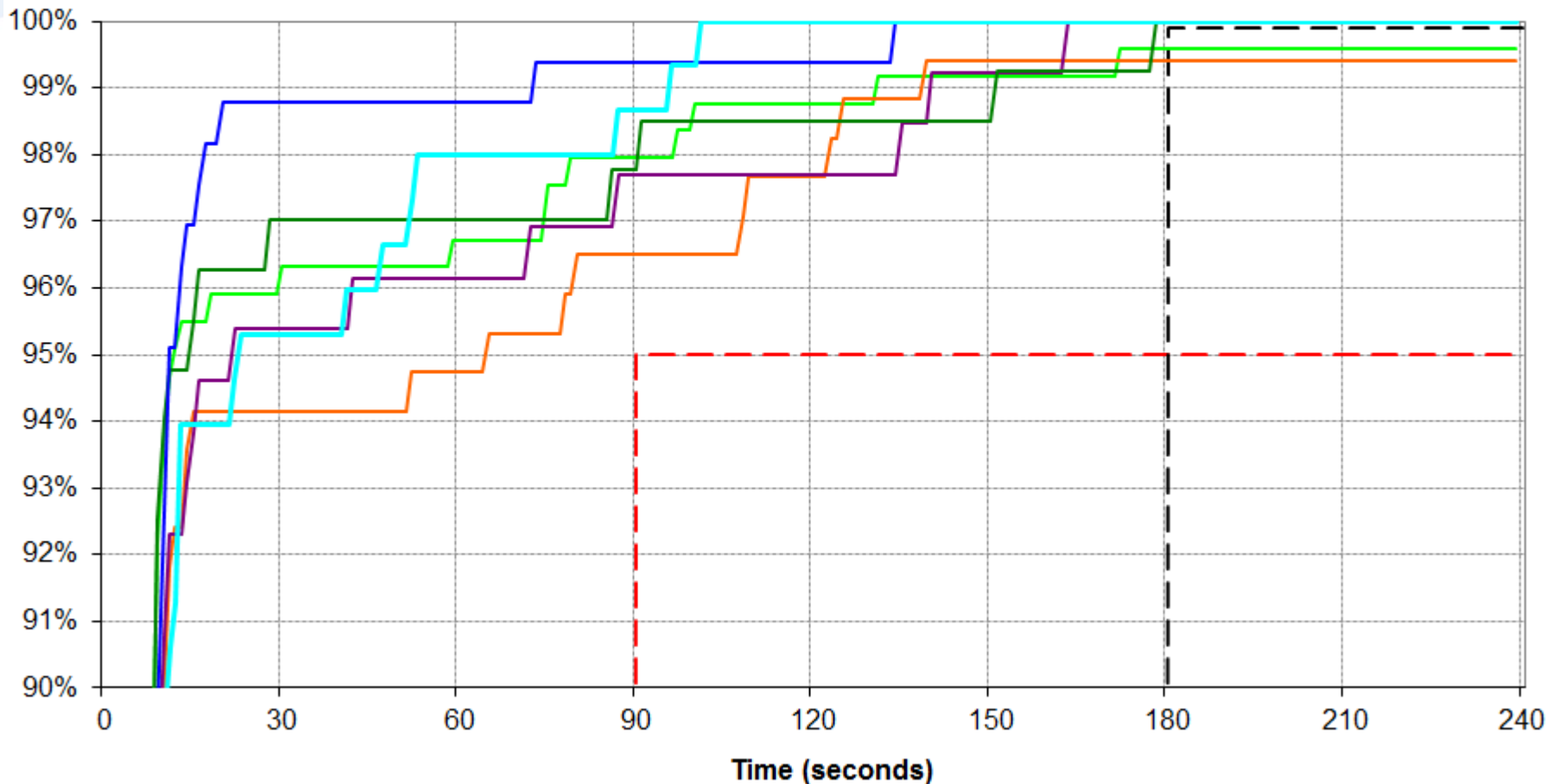
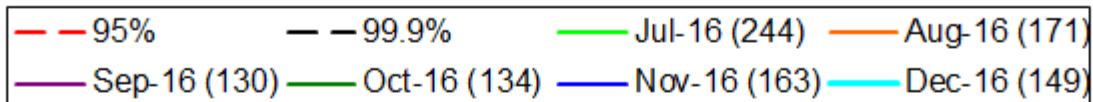
Oakland FIR - All SBB

Actual Communication Performance (ACP)



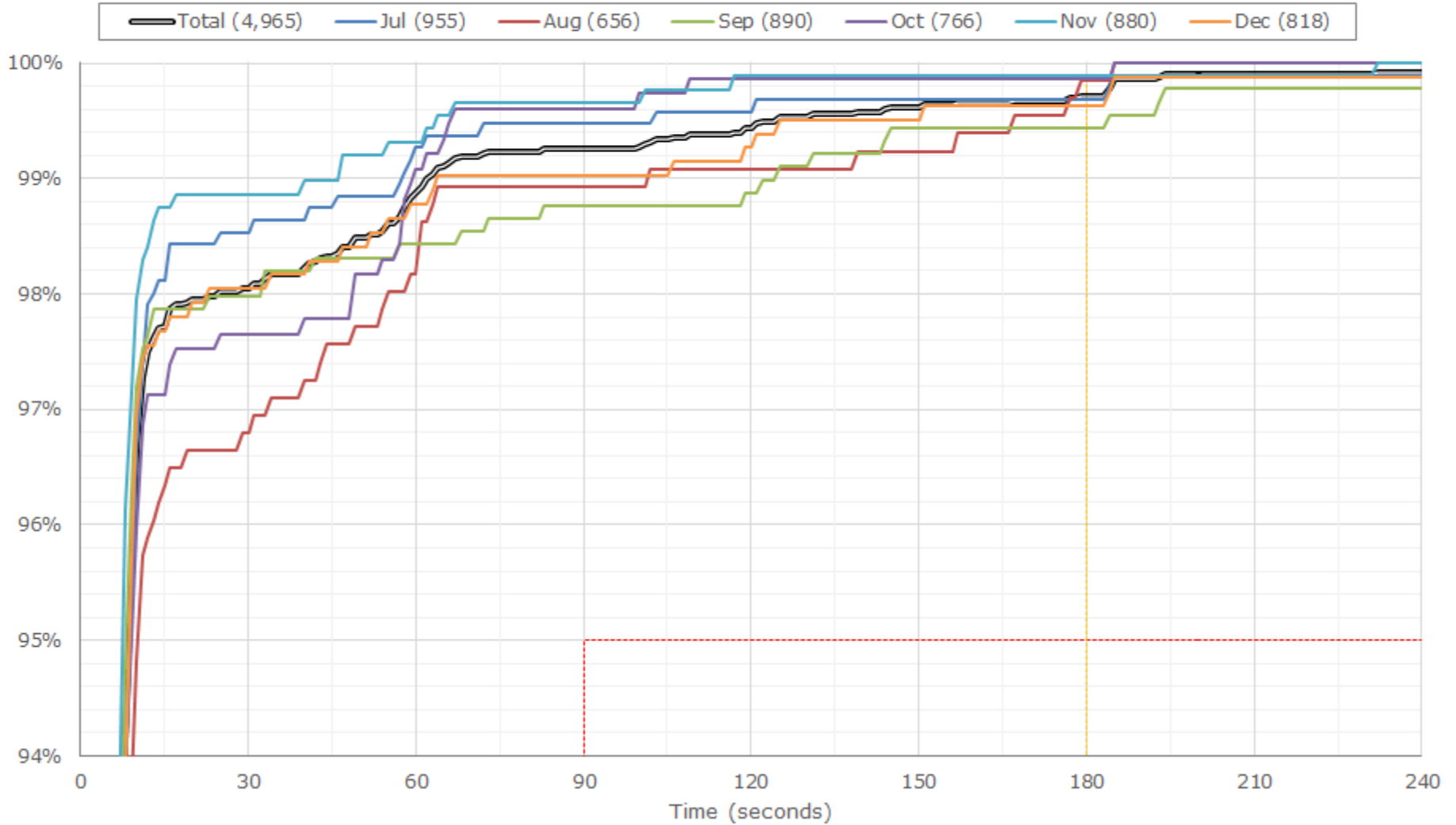
NZZO FIR - All SBB

Actual Surveillance Performance (ASP)



Fukuoka FIR - XXS by Month - Jul to Dec 2016

ADS-C Actual Surveillance Performance (ASP)



OAKLAND SBB VS. AGGREGATE SAT

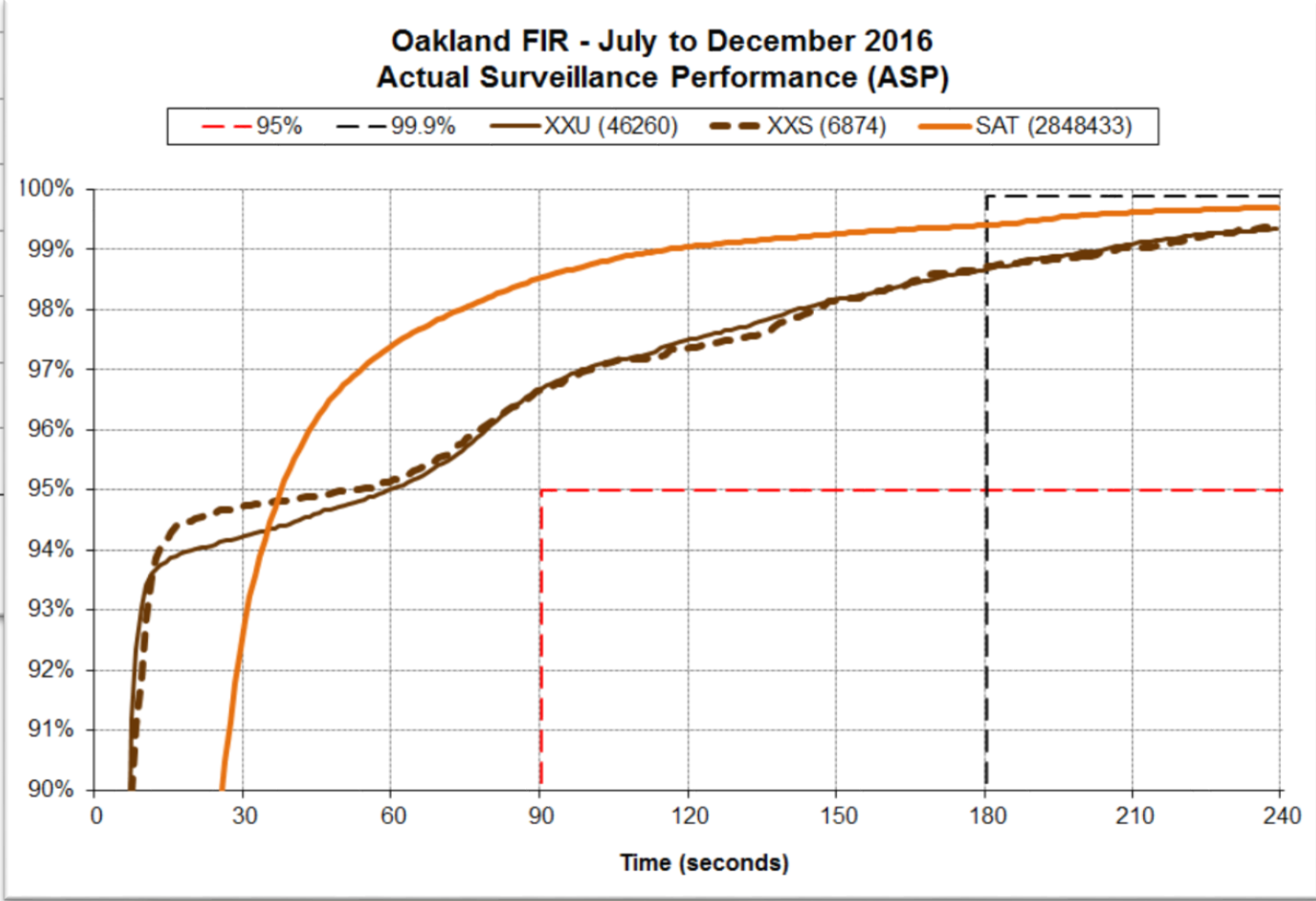
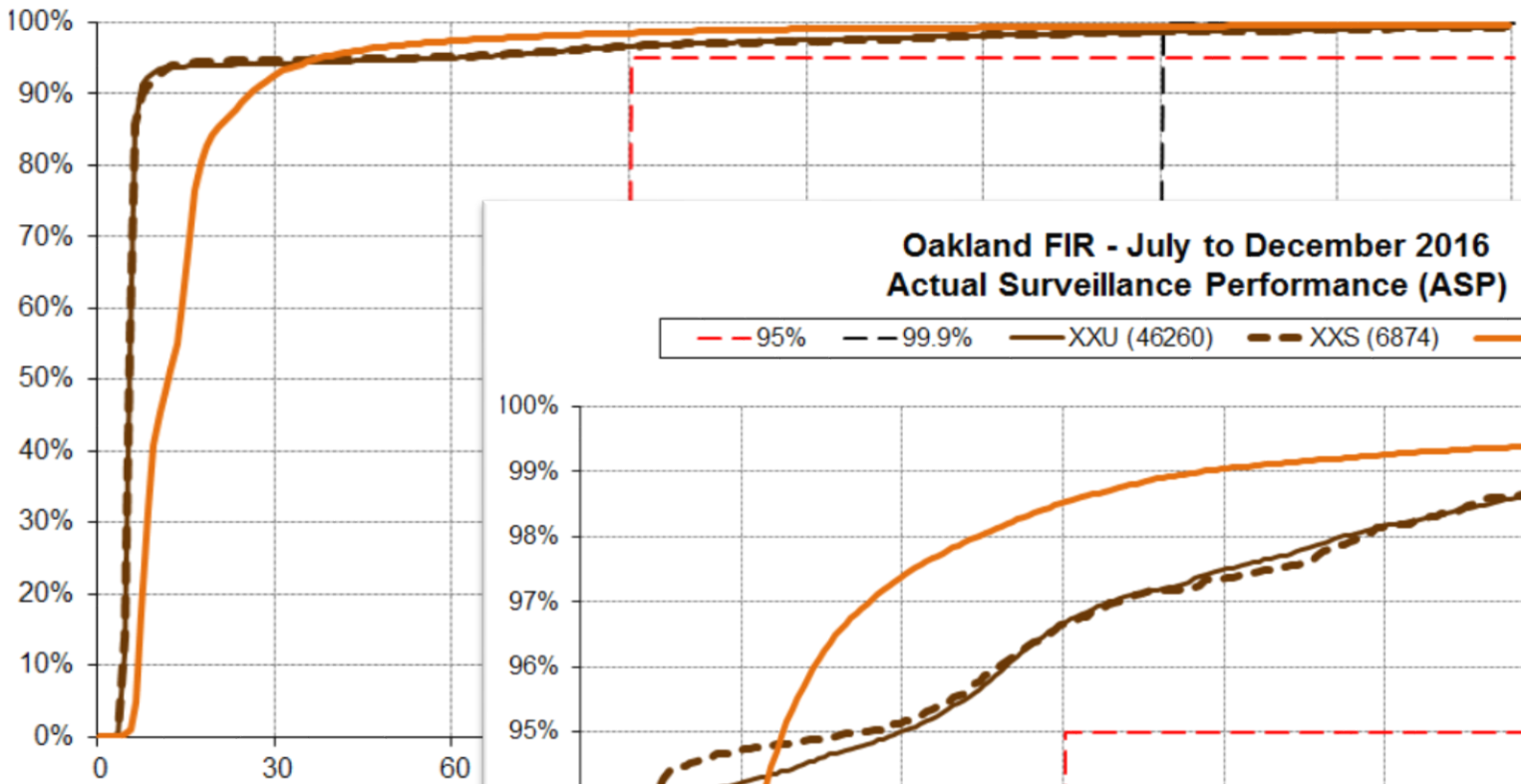


FAA



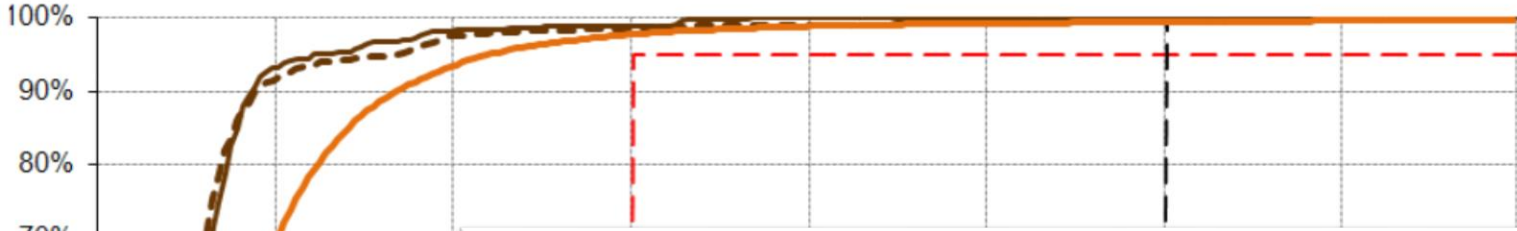
Oakland FIR - July to December 2016 Actual Surveillance Performance (ASP)

- - 95%
 - - 99.9%
 — XXU (46260)
 - - XXS (6874)
 — SAT (2848433)



Oakland FIR - July to December 2016 Actual Communication Performance (ACP)

— 95% — 99.9% - - XXU (1796) — XXS (374) — SAT (117603)



Oakland FIR - July to December 2016 Actual Communication Performance (ACP)

— 95% — 99.9% - - XXU (1796) — XXS (374) — SAT (117603)

